A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 CO2F1/00 CO2F C02F1/44 B01D61/02 According to International Patent Classification (iPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 CO2F BO1D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. EP 1 161 981 A (100A) 2001 12 December 2001 (2001-12-12) paragraphs '0021! - '0023!, '0027!, '0034! '0040!, '0041!, Y 1-5,7-11 '0044!; claims 15,16,19,20,30,31; figures Y EP 0 055 981 A (MESPLE JOSE L R) 1,2,6 14 July 1982 (1982-07-14) page 7, lines 3-8 page 10, lines 6-13
page 13, line 24 - page 14, line 19
page 15, line 28 - page 16, line 31
page 18, lines 9-24; claims 1,2 Υ WO 00/75510 A (UNIV TEXAS) 8-11 14 December 2000 (2000-12-14) page 3, lines 8-29; claim 1; figure 3 -/--Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the 'A' document defining the general state of the art which is not considered to be of particular relevance Invention 'E' earlier document but published on or after the International "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the "O" document referring to an oral disclosure, use, exhibition or document is combined with one or more other such docu-ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 18 October 2004 27/10/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo ni, Kurtulan, M Fax (+31-70) 340-3016

O (Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	7 CH2004/ 000401
Category *		Relevant to claim No.
Calogory	Orallon or occurrent, with installon, whole depropriate, or the tolerant passages	ABOVERNI TO GERMINO.
Y	WO 01/16493 A (DCT DOUBLE CONE TECHNOLOGY AG; STARK JOHN HERMAN (CH); WAGENBACH HANS) 8 March 2001 (2001-03-08) cited in the application page 6, lines 18-25 page 7, line 19 - page 8, line 2 page 9, lines 1-21; claims 7-13; figures 4-8	1-11
Y	EP 1 243 748 A (DCT DOUBLE CONE TECHNOLOGY AG) 25 September 2002 (2002-09-25) paragraphs '0001!, '0003!, '0012!, '0014!, '0017!; figures 1,5	1-11
		·

F 'CH2004/000461

EP 1161981 A2 12- AT 218917 T 15- AU 691649 B2 21- AU 3315295 A 26- CA 2160330 A1 13- CN 1132108 A ,B 02- DE 69527021 D1 18- DE 69527021 T2 14- EP 0709130 A1 01- ES 2178660 T3 01- KR 204608 B1 15- PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	04-1996 12-2001 06-2002 05-1998 04-1996 10-1996 07-2002 11-2002 05-1996 01-2003 06-1999 10-2002 02-2001
EP 1161981 A2 12- AT 218917 T 15- AU 691649 B2 21- AU 3315295 A 26- CA 2160330 A1 13- CN 1132108 A ,B 02- DE 69527021 D1 18- DE 69527021 T2 14- EP 0709130 A1 01- ES 2178660 T3 01- KR 204608 B1 15- PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	12-2001 06-2002 05-1998 04-1996 04-1996 07-2002 11-2002 05-1996 01-2003 06-1999 10-2002 02-2001
AT 218917 T 15- AU 691649 B2 21- AU 3315295 A 26- CA 2160330 A1 13- CN 1132108 A ,B 02- DE 69527021 D1 18- DE 69527021 T2 14- EP 0709130 A1 01- ES 2178660 T3 01- KR 204608 B1 15- PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	06-2002 05-1998 04-1996 04-1996 10-1996 07-2002 11-2002 05-1996 01-2003 06-1999 10-2002 02-2001
AU 691649 B2 21- AU 3315295 A 26- CA 2160330 A1 13- CN 1132108 A ,B 02- DE 69527021 D1 18- DE 69527021 T2 14- EP 0709130 A1 01- ES 2178660 T3 01- KR 204608 B1 15- PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	04-1996 04-1996 10-1996 07-2002 11-2002 05-1996 01-2003 06-1999 10-2002 02-2001
AU 3315295 A 26- CA 2160330 A1 13- CN 1132108 A ,B 02- DE 69527021 D1 18- DE 69527021 T2 14- EP 0709130 A1 01- ES 2178660 T3 01- KR 204608 B1 15- PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	04-1996 04-1996 10-1996 07-2002 11-2002 05-1996 01-2003 06-1999 10-2002 02-2001
CA 2160330 A1 13- CN 1132108 A ,B 02- DE 69527021 D1 18- DE 69527021 T2 14- EP 0709130 A1 01- ES 2178660 T3 01- KR 204608 B1 15- PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	04-1996 10-1996 07-2002 11-2002 05-1996 01-2003 06-1999 10-2002 02-2001
CN 1132108 A , B 02- DE 69527021 D1 18- DE 69527021 T2 14- EP 0709130 A1 01- ES 2178660 T3 01- KR 204608 B1 15- PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	10-1996 07-2002 11-2002 05-1996 01-2003 06-1999 10-2002 02-2001
DE 69527021 D1 18- DE 69527021 T2 14- EP 0709130 A1 01- ES 2178660 T3 01- KR 204608 B1 15- PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	07-2002 11-2002 05-1996 01-2003 06-1999 10-2002 02-2001
DE 69527021 T2 14- EP 0709130 A1 01- ES 2178660 T3 01- KR 204608 B1 15- PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	11-2002 05-1996 01-2003 06-1999 10-2002 02-2001
EP 0709130 A1 01- ES 2178660 T3 01- KR 204608 B1 15- PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	05-1996 01-2003 06-1999 10-2002 02-2001 07-1982
ES 2178660 T3 01- KR 204608 B1 15- PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	01-2003 06-1999 10-2002 02-2001 07-1982
KR 204608 B1 15- PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	06-1999 10-2002 02-2001 07-1982
PT 709130 T 31- US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	10-2002 02-2001 07-1982
US 6187200 B1 13- EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	02-2001 07-1982
EP 0055981 A 14-07-1982 ES 8203308 A1 01- ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	 07-1982
ES 501374 A2 01- BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	
BR 8108083 A 14- EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	
EP 0055981 A1 14- GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	09-1982
GR 75052 A1 13- JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	09-1982
JP 57130586 A 13- MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	07-1982
MA 19291 A1 01- NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	07-1984
NO 820005 A 06- MT 904 A 27- WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	08-1982
MT 904 A 27	04-1982
WO 0075510 A 14-12-2000 AU 5328300 A 28- BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	07-1982
BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	07-1983
BR 0011410 A 04- EP 1228311 A2 07- NO 20015968 A 07-	12-2000
EP 1228311 A2 07- NO 20015968 A 07-	06-2002
NO 20015968 A 07-	08-2002
	02-2002
	12-2000
	-01-2003
	12-2003
US 6497287 B1 24-	
	03-2001
	-01-2004
	-03–2001
	-03–2001
	-02-2004
	-04-2004
EP 1208304 A1 29-	-05-2002
	-03-2004
EP 1243748 A 25-09-2002 EP 1243748 A1 25-	
	-09-2002
	-09-2002 -03-2004
	-03-2004
	-03 <mark>-2</mark> 004 -09-2002
US 2004104023 A1 03-	-03-2004